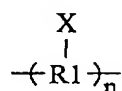


This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of claims:**

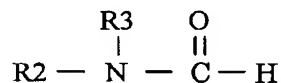
Claims 1-17 (canceled)

Claim 18 (new): A proton conductor, including:  
a first compound having a first structural part having a first formula:



where R1 represents a component including carbon, X represents a protic dissociation group, and  $n \geq 1$ ; and

a second compound having a second structural part having a second formula:



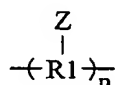
where R2 and R3 represent a component including carbon or hydrogen, respectively.

Claim 19 (new): A proton conductor according to claim 18, wherein the second compound includes at least one of N, N-dimethyl formamide and N-methyl formamide.

Claim 20 (new): A proton conductor according to claim 18, wherein where a number of moles of the first compound is a, and the number of moles of the second compound is b, a ratio of the number of moles b to the number of moles of the protic dissociation group  $(a \times n)$  includes  $10 \leq b/(a \times n) \leq 30$ .

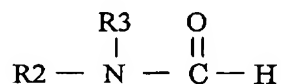
Claim 21 (new): A proton conductor according to claim 18, wherein the protic dissociation group is at least one of a -SO<sub>3</sub>H group, a -COOH group, and a -OH group.

Claim 22 (new): A single ion conductor, including:  
a first compound having a first structural part having a first formula:



where R1 represents a component including carbon, Z represents a cationic dissociation group, and  $n \geq 1$ ; and

a second compound having a second structural part having a second formula:



where R2 and R3 represent a component including carbon or hydrogen, respectively.

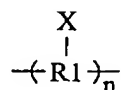
Claim 23 (new): A single ion conductor according to claim 22, wherein the second compound includes at least one of N, N-dimethyl formamide and N-methyl formamide.

Claim 24 (new): A single ion conductor according to claim 22, wherein where the number of moles of the first compound is c, and a number of moles of the second compound is b, a ratio of the number of moles b to the number of moles of the cationic dissociation group ( $c \times n$ ) is in a range of  $10 \leq b/(c \times n) \leq 30$ .

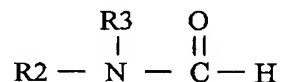
Claim 25 (new): A single ion conductor according to claim 22, wherein the cationic dissociation group is at least one of a -SO<sub>3</sub>M group, a -COOM

group, and a -OM group where M is selected from the group consisting of lithium, sodium, potassium, and rubidium.

Claim 26 (new): A method of manufacturing a proton conductor, the method comprising impregnating a first compound having a first structural part having a first formula into a second compound or a solution thereof in a solvent, the second compound having a second structural part having a second formula, where the first formula and the second formula are as follows, respectfully:

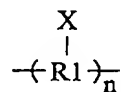


where R1 represents a component including carbon, X represents a protic dissociation group, and n is in a range of  $n \geq 1$ , and

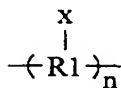


where R2 and R3 represent a component including carbon or hydrogen, respectively.

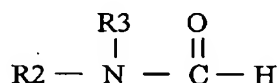
Claim 27 (new): A method of manufacturing a proton conductor, the method comprising mixing at least one of a first compound having a first structural part having a first formula and a second compound having a second structural part having a second formula and a third compound having a third structural part having a third formula in a solvent and evaporating the solvent, where the first formula, the second formula, and the third formula are as follows, respectfully.



where R1 represents a component including carbon, X represents a protic dissociation group, and n is in a range of  $n \geq 1$ ;

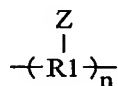


where R1 represents a component including carbon, x represents a group capable of becoming a protic dissociation group by ion exchange, and n is in a range of  $n \geq 1$ ; and

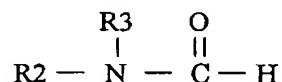


where R2 and R3 represent a component including carbon or hydrogen, respectively.

Claim 28 (new): A method of manufacturing a single ion conductor, the method comprising impregnating a first compound having a first structural part having a first formula into a second compound or solution thereof in a solvent, the second compound having a second structural part having a second formula, where the first formula and the second formula are as follows, respectfully:



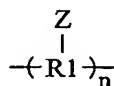
where R1 represents a component including carbon, Z represents a cationic dissociation group, and n is in a range of  $n \geq 1$ ; and



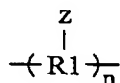
where R2 and R3 represent a component including carbon or hydrogen, respectively.

Claim 29 (new): A method of manufacturing a single ion conductor, the method comprising mixing at least one of a first compound having a first structural part having a first formula and a second compound having a second

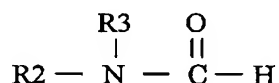
structural part having a second formula and a third compound having a third structural part having a third formula in a solvent and evaporating the solvent, where the first formula, the second formula and the third formula are as follows, respectfully:



where R1 represents a component including carbon, Z represents a cationic dissociation group, and n is in a range of  $n \geq 1$ ;

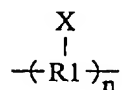


where R1 represents a component including carbon, z represents a group capable of becoming a cationic dissociation group by ion exchange, and n is in a range of  $n \geq 1$ ; and

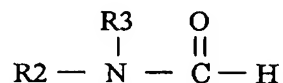


where R2 and R3 represent a component including carbon or hydrogen, respectively.

Claim 30 (new): An electrochemical capacitor having a capacitance between a pair of electrodes opposed with an electrolyte therebetween, wherein the electrolyte includes a first compound having a first structural part and a second compound having a second structural part having a second formula, where the first formula and the second formula are as follows, respectfully:



where R1 represents a component including carbon, X represents a protic dissociation group, and n is in a range of  $n \geq 1$ ; and



where R2 and R3 represent a component including carbon or hydrogen, respectively.

Claim 31 (new): An electrochemical capacitor according to claim 30, wherein the second compound includes at least one of N, N-dimethyl formamide and N-methyl formamide.

Claim 32 (new): An electrochemical capacitor according to claim 30, wherein where a number of moles of the first compound is a, and a number of moles of the second compound is b, a ratio of the number of moles b to the number of moles of the protic dissociation group ( $a \times n$ ) is in a range of  $10 \leq b/(a \times n) \leq 30$ .

Claim 33 (new): An electrochemical capacitor according to claim 30, wherein the protic dissociation group is at least one of a  $-\text{SO}_3\text{H}$  group, a  $-\text{COOH}$  group, and a  $-\text{OH}$  group.

Claim 34 (new): An electrochemical capacitor according to claim 30, having a pseudo capacity expressed as a derived function  $d(\Delta q)/d(\Delta v)$  between a magnitude of an electrical charge ( $\Delta q$ ) and a magnitude of an electrical change ( $\Delta v$ ), in addition to the capacitance between the pair of electrodes.